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ABSTRACT

In the information age of instant access to libraries, databases, information centers, organizations, government agencies, and self-appointed experts worldwide, it is hard to decide where to turn for accurate, reliable, and up-to-date information about mathematics education. This digest provides an annotated listing of World Wide Web resources and contact information pertaining to mathematics education. Though not an exhaustive list of everything that is available, the information provided here represents a wide range of resources as starting points in the quest for information. The list is organized by the following categories: (1) Organizations; (2) Information Centers; (3) Publications; (4) Journals; and (5) Mathematics Education Resources on the Internet. (ASK)

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Information Sources for Mathematics Education

S. Asli Özgün-Koca

October 1998

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In this information age of instant access to libraries, databases, information centers, organizations, government agencies, and self-appointed experts worldwide, where do you turn for accurate, reliable, and up-to-date information about mathematics education? There are many competing voices hoping to influence the practices and policies of teachers, schools, parents, and administrators, so it seems important to have confidence in one's sources of information. Listed here are some of the key information sources used by parents, researchers, and other professionals. There are many more local, regional, national, and international resources not listed here, but these are reliable starting points in your quest for information.

Organizations

National Council of Teachers of Mathematics (NCTM)

As the primary professional organization for teachers of mathematics in grades K-12, the NCTM provides broad national leadership in issues related to learning and teaching of mathematics at all levels. Professional development opportunities are provided through regional and national conferences, and through publishing journals, books, videos, and software.

NCTM, 1906 Association Drive,
Reston, VA 20191-1593
Phone: (703) 620-9840
Fax: (703) 476-2970
Fax on Demand: (800) 220-8483
E-mail: InfoCentral@nctm.org, webmaster@nctm.org
URL: http://www.nctm.org/

Information Centers

ERIC Clearinghouse for Science, Mathematics, and Environmental Education (ERIC/CSMEE)

The Clearinghouse is one of 16 in the ERIC system–a service of the U.S. Department of Education–and its purpose is to facilitate ongoing improvement in education in all areas at all levels through providing access to resources in science, mathematics, and environmental education.

ERIC/CSMEE, 1929 Kenny Road,
Columbus, OH 43210-1080
Toll-Free: (800) 276-0462
Phone: (614) 292-6717
Fax: (614) 292-0263
E-mail: ericse@osu.edu
URL: http://www.ericse.org

The Eisenhower National Clearinghouse for Mathematics and Science Education (ENC)

Funded by the U.S. Department of Education, ENC provides K-12 teachers with a central source of information about mathematics and science curriculum materials. ENC maintains a national repository of mathematics and science curriculum resources that is available to educators, students, parents, and others.

ENC, 1929 Kenny Road,
Columbus, OH 43210-1079
Toll-Free: (800) 621-5785
Phone: (614) 292-7784
Fax: (614) 292-2066
E-mail: info@enc.org
URL: http://www.enc.org

Mathematical Sciences Education Board Center for Science, Mathematics, and Engineering Education

The Mathematical Sciences Education Board (MSEB) provides national leadership and guidance for policies, programs, and practices supporting the improvement of mathematics education at all levels and for all members of the society through publishing.

National Research Council, 2101
Constitution Avenue, NW (HA 450),
Washington, DC 20418
Phone: (202) 334-3294
Fax: (202) 334-1453
E-mail: mseb@nas.edu
URL: http://www4.nas.edu/csmee/mseb.nsf

TERC

TERC is a nonprofit research and development organization committed to improving mathematics and science learning and teaching. TERC is internationally recognized for creating innovative curricula, fostering teacher professional development, pioneering creative uses of technology in education, contributing to educators' understanding of learning and teaching, and developing equitable opportunities for underserved learners.

TERC, 2067 Massachusetts Avenue,
Cambridge, MA 02140
Phone: (617) 547-0430
Fax: (617) 349-3535
E-mail: info@terc.edu
URL: http://www.terc.edu/

Publications

NCTM's three *Standards* documents laid the foundation for the current reform efforts in mathematics education:

- *The Curriculum and Evaluation Standards for School Mathematics* (1989) presents recommendations for improving and updating the mathematics curriculum and the evaluation of students' achievement. *http://www.enc.org/reform/journals/ENC2280/280dtoc1.htm*
- *The Professional Standards for Teaching Mathematics* (1991) offers specific suggestions for how mathematics teachers can create successful learning environments for every student and promote their own professional growth.
- *The Assessment Standards for School Mathematics* (1995) describes ways to have a comprehensive mathematics assessment program and provides criteria for judging the quality of mathematics assessment.

The National Council of Teachers of Mathematics has released a draft of updated Standards, entitled "Principles and Standards for School Mathematics" at http://www.nctm.org/standards2000/. You can download the draft from the web.

Journals

Educational Studies in Mathematics

This journal presents new ideas and developments of major importance to those working in the field of mathematical education. It reflects both the variety of research concerns within this discipline as well as the range of methods used to

didactical, methodological and pedagogical subjects, rather than with specific programs for teaching mathematics.

http://www.wkap.nl/journalhome.htm/0013-1954

Focus on Learning Problems in Mathematics

FOCUS is an interdisciplinary journal, edited jointly by the Research Council for Diagnostic and Prescriptive Mathematics (RCDPM) and the Center for Teaching/Learning of Mathematics (CT/LM). The objective of FOCUS is to make available the current research, methods of identification, diagnosis, and remediation of learning problems in mathematics.

http://www.wcnet.org/~rcdpm/focus.html

For the Learning of Mathematics

This journal aims to stimulate reflection on mathematics education at all levels, and promote study of its practices and theories: to generate productive discussion; to encourage inquiry and research; to promote criticism and evaluation of ideas and procedures current in the field.

Journal for Research in Mathematics Education

An official journal of NCTM, JRME is devoted to the interests of teachers of mathematics and mathematics education at all levels. It publishes reports of research, including experiments, case studies, surveys, and philosophical studies; articles about research, including literature reviews and theoretical analyses; brief reports of research; critiques of articles and books; and brief commentaries on issues pertaining to research.

http://www.nctm.org/jrme/

Journal of Computers in Mathematics & Science Teaching

JCMST offers an in-depth forum for the interchange of information in the fields of science, mathematics, and computer science. JCMST is the only periodical devoted specifically to using information technology in the teaching of mathematics and science.

http://www.aace.org/pubs/jcmst/Default.htm

Journal of Mathematical Behavior

This journal focuses on interventions that improve the teaching and learning of mathematics and to help develop a deeper understanding of how people learn and use mathematics.

Mathematical Cognition

The journal provides a forum for research on mathematical cognition from diverse fields of study, including advances in the study of mental representation and the uses of mathematical concepts, and their development in children.

Mathematics And Computer Education

This is an independent, refereed journal, internationally indexed and abstracted, and devoted to critical evaluation and dissemination of articles; development of materials for the improvement of classroom effectiveness in the first years of college, and encouragement of high academic standards.

http://www.nsiweb.com/mcejournal/default.html

Mathematics Educational Research Journal

This is the official journal of the Mathematics Education Research Group of Australasia, Inc. It is an international, refereed journal which provides a forum for the publication of research on the teaching and learning of mathematics at all levels.

Mathematics in School

Mathematics in School is published five times a year by the Mathematical Association. A variety of articles on teaching and learning mathematics are published, including activities, opinion articles, and lesson plans.

Mathematics Teacher

An NCTM journal devoted to improving mathematics instruction in grade 8 through two-year and teacher-education colleges.

http://www.nctm.org/mt/mt.htm

Mathematics Teaching in the Middle School

An NCTM journal intended as a resource for middle school students, teachers, and teacher educators. The focus of the journal is on intuitive, exploratory investigations that use informal reasoning to help students develop a strong conceptual basis that leads to greater mathematical abstraction.

http://www.nctm.org/mtms/mtms.htm

School Science and Mathematics

This is the official international journal of the School Science and Mathematics Association. The journal focuses on issues, concerns, and lessons within and between the disciplines of science and mathematics in the classroom.

http://osu.orst.edu/pubs/ssm/

Teaching Children Mathematics

This is an NCTM journal that provides a forum for the exchange of ideas and a source of activities and pedagogical strategies for mathematics education pre-K-6. It presents new developments in curriculum, instruction, learning, and teacher education; interprets the results of research; and in general provides information on any aspect of the broad spectrum of mathematics education appropriate for preservice and in-service teachers.

http://www.nctm.org/tcm/tcm.htm

Teaching Mathematics and Its Applications

This journal provides mathematics teachers in secondary and tertiary education with interesting and stimulating instructoinal materials.

Mathematics Education Resources on the Internet

Math Forum Internet Resource Collection

http://forum.swarthmore.edu/~steve/index.html

EXTENT Resources for Mathematics Education

http://www.stolaf.edu/stolaf/other/extend/Resources/resources.html

Mathematics Education Resources

http://www.pitt.edu/~sosmos/mathematics_resources/

MathEd: Mathematics Education Resources

http://www-hpcc.astro.washington.edu/scied/math.html

Education World: Math

http://db.education-world.com/perl/browse?cat_id=1515

Librarian's Guide to the Internet: Mathematics Topics

http://sunsite.berkeley.edu/InternetIndex/3/math.html

Yahoo!: Mathematics

http://dir.yahoo.com/Science/Mathematics/

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ERIC

The Educational Resources Information Center is a nationwide information system initiated in 1966 by the U.S. Department of Education. ERIC has developed the largest and most frequently used education-related database in the world. For information, call 1-800-538-3742.